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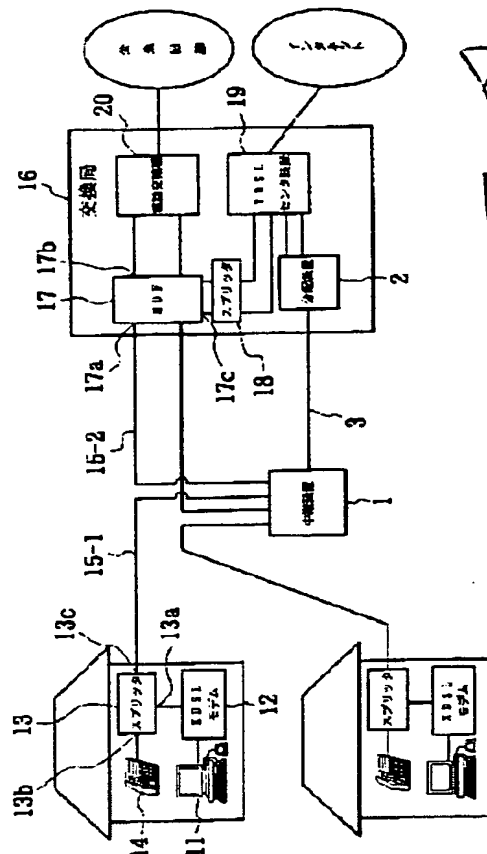
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TITLE : SUBSCRIBER SYSTEM DATA
TRANSMISSION SYSTEM



ABSTRACT : PROBLEM TO BE SOLVED: To provide XDSL service even for a remote subscriber at a long distance from an exchange at a sufficiently fast transmission rate nearly as high as that of a near subscriber at a short distance from the exchange.

SOLUTION: A system which performs high-speed data transmission between a subscriber terminal 11 and the Internet connected to an XDSL center device 19 by connecting the subscriber terminal 11 to the XDSL center device 19 of the exchange 16 through an XDSL modem 12 and an analog telephone line 15 is characterized by that a repeating device 1 installed at a specified repeating point of the analog telephone line 15 between the subscriber terminal 11 and exchange 16 sends out a optical signal generated by photoelectrically converting a subscriber digital signal inputted from the subscriber terminal 11 to an optical fiber 3 and a distributing device 2 connected to the XDSL center device 19 of the exchange 16 sends out a subscriber digital signal generated by photoelectrically converting the optical signal inputted from the optical fiber 3, thereby shortening the length of the analog telephone line which transmits the subscriber digital signal.

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Idea of using fibre

- no modem

- no fibre for each line